

ORAL EXAM

1. Surgical deontology.
2. Informed consent.
3. Cutting instruments.
4. Hemostatic instruments.
5. Grasping and retracting instruments.
6. Special instruments.
7. Suturing instruments.
8. Definitions of operation, reoperation, elective, urgent and emergency operation.
9. Indications and contraindications. Absolute and relative indications.
10. Tools' order on the big table.
11. Tools' order on the Sonnenburg table for venous cutdown technique.
12. Tools' order on the Sonnenburg table for skin and muscle incision, ligation and closure.
13. Tools' order on the Sonnenburg table for laparotomy and closure of the abdominal wall.
14. Tools' order on the Sonnenburg table for tracheostomy.
15. Tools' order on the Sonnenburg table for vascular surgery.
16. Tools' order on the Sonnenburg table for intestinal surgery.
17. Surgical needles. Surgical clips, staplers.
18. Absorbable suture materials (definitions, classification, fiber characteristics).
19. Non-absorbable suture materials (definitions, classification, fiber characteristics).
20. Properties of the ideal suture material. Reaction index.
21. Suturing and knotting techniques. Technique of suture removal.
22. Asepsis and antisepsis.
23. Types and requirements of disinfectants and scrub solutions.
24. Behavioural rules in the operating theatre. Scrubbing. Gowning and gloving.
25. Disinfection and isolation of the operative field.
26. Methods of sterilization.
27. Surgical hemostasis – stop the bleeding temporary.
28. Surgical hemostasis – stop the bleeding definitively.
29. Principles of electrosurgery.
30. Injection techniques in general (tools, steps). Intracutaneous, subcutaneous, intramuscular and intravenous injections.
31. Technique of blood sampling (tools, steps, Vacutainer tubes).
32. Infusion solutions. Technique of infusion (tools, steps).
33. Instrumentation and steps of venous cutdown technique. Preparation of the venous catheter.
34. Catheterization in general. Catheter types. Urinary bladder catheterization.
35. Classification of laparotomies (direction, relation to muscles).
36. Median laparotomy (anatomy, operative technique).
37. Paramedian laparotomy (anatomy, operative technique).
38. Abdominal wound closure in two layers (explaining surgical anatomy).
39. Abdominal wound closure in three layers (explaining surgical anatomy).
40. Wound types and characterization. Phases of wound healing.
41. Basic principles of wound treatment. Wound dressings.
42. Drains in general. Puncture of the abdominal and thoracic cavity.
43. Causes and mechanisms of upper airway obstruction.
44. Priorities in the management of upper airway obstruction. Conicotomy (indication, surgical anatomy, operative technique).
45. Tracheostomy (indication, surgical anatomy, operative technique).
46. Early and late complications of tracheostomy.
47. Basic principles of intestinal surgery. Conventional suturing techniques and staplers.
48. Adhesion problem in abdominal surgery (definition, causes, pathomechanism, classification, rules and possibilities for prevention).

49. Basic principles of liver surgery (surgical anatomy, terminology for liver resection, operative techniques).
50. Basic principles of spleen surgery (surgical anatomy, operative techniques, possibilities of organ saving surgery).
51. Basic principles of renal surgery (surgical anatomy, terminology for operative techniques).
52. Basic principles of pancreatic surgery (surgical anatomy, terminology for operative techniques).
53. Transplantation possibilities of the abdominal parenchymal organs.
54. Bioplasts – definition, types, application field.
55. Surgical tissue adhesives – definition, types, application field.
56. Basic principles of vascular surgery (arteries).
57. Basic surgical principles of venous and lymphatic surgery.
58. Minimal invasive surgery: laparoscopy, microsurgery.
59. Differences between laparotomy and laparoscopic interventions.
60. Famous surgeons in the history of surgery (instruments, tools, operative techniques).

PRACTICAL EXAM

Scrubbing, gowning, gloving

Disinfection and isolation of the operative field

Tools' order on the big table

Tools' order on the Sonnenburg table

- for venous cutdown technique
- for skin and muscle incision
- for laparotomy
- for tracheostomy
- for intestinal surgery
- for vascular surgery

Mariner and surgical knots

Simple interrupted and simple continuous sutures

Donati stitch (vertical mattress stitch)

Technique of suture removal

Ligatures on gauze model

Venous cutdown technique (instruments, vein preparation and cannulation) on phantom-model, securing the cannula.

Intravenous injection technique on phantom model

Taking blood samples on phantom model, handling of Vacutainer tubes

Handling of surgical instruments (inserting and removing of surgical blade; holding and use of scalpel, scissors, forceps, hemostatic instruments, suturing instruments; technical rules of suture preparation)

Information on the package of the absorbable suture material (needle - thread)

Information on the package of the non-absorbable suture material (needle - thread)